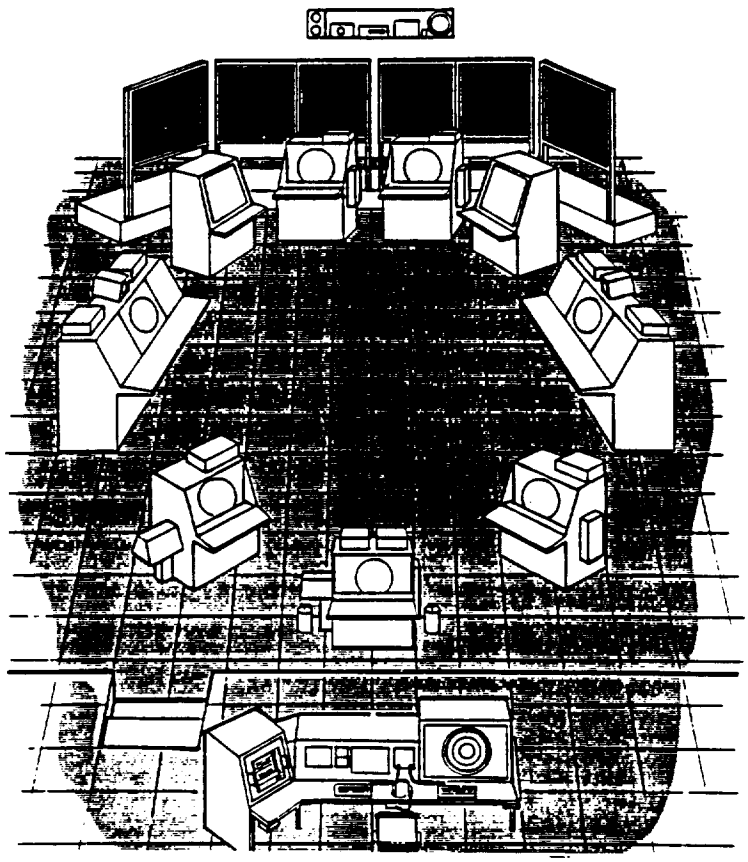
SUMMARY OF

ADVANCED SHIPBOARD AIR TRAF CON TRAINING SYSTEM

January 1992 **Device 15G30**

NAVAL TRAINING SYSTEMS CENTER ORLANDO, FLORIDA



TRAINING CATEGORY:

Air Traffic Control (Carrier)

ORIGINATING AGENCY:

DCNO/AIR .

SECURITY CLASSIFICATION OF DEVICE:

Device 15G30 is unclassified.

PURPOSE OF DEVICE:

To provide realistic training and practice in control of air traffic in the environment surrounding an Aircraft Carrier from the Carrier Air Traffic Control Center (CATCC)

INTENDED USE:

In Air Traffic Controller schools for classroom and laboratory training of enlisted Navy and Marine Corps air traffic controllers with varying degrees of proficiency in controlling air traffic.

FUNCTIONAL DESCRIPTION:

The CATCC Laboratory is a computer driven Carrier Air Traffic Control Center trainer that simulates the at-sea air traffic control environment. The trainer provides ATC operations and display/equipment to simulate those found on-board ship.

The trainer is comprised of five Direct Altitude Identification Readout (DAIR) stations utilizing OD-146 operating positions and Automatic Carrier Landing Systems (ACLS) stations employing either two AN/SPN-42 or two AN/SPN-46 operating positions. These simulated positions provide for Carrier Controlled Approach (CCA) supervisor position, marshal position, departure/tanker position and approach A and B positions in either of the two ACLS configurations. An Instructor Operation Station provides for lesson scenario selection, training supervision and post training review.

In addition to instructor/student communication and intercom equipment (simulated OJ-314 communication panels), an automated voice recognition/synthesizer is featured to simulate student interaction with simulated pilots.

A Host Computer, in addition to providing the real-time scenario inputs to the trainer positions, also provides capabilities for scenario generation, voice enrollment and diagnostic trouble-shooting.

PHYSICAL INFORMATION:

Number of pieces: 36 units

Sizes:
- (5) OD-146 - 52" high x 52" deep x 30" wide
- (2) SPN-42 - 45" high x 48" deep x 66" wide
- (2) SPN-46 - 50" high x 49" deep x 24" deep
- (17) OJ-314 - 5.5" high x 8.5" deep x 7.5" wide
- (1) IOS Center - 43" high x 46.5" deep x 48" wide
- Left PAR - 48" high x 48" deep x 24" wide
- Right ASR - 51" high x 60" deep x 30" wide
- (1) Host Computer - 70" high x 32" deep x 24" wide
- (1) C-10329 - 8" high x 7" deep x 3" wide
- (1) C-10330 - 10" high x 7" deep x 3" wide
- (2) DLM - 18" high x 10" deep x 8.5" wide
- (2) DRO - 16" high x 10" deep x 10" wide
- (2) SPA-18 - 12.5" high x 24" deep x 12.5" wide

Weight:
- OD-146 - 400 pounds
- SPN-42 - 850 pounds
- SPN-46 - 350 pounds
- IOS Center - 400 pounds
- Left PAR - 375 pounds
- Right ASR - 400 pounds
- Host Computer - 600 pounds
- C-10329 - 4 pounds
- C-10330 - 5 pounds
- DLM - 10 pounds
- DRO - 15 pounds
- SPA-18 - 70 pounds
- Total System (excluding cables) - 6050 pounds

EQUIPMENT REQUIRED (NOT SUPPLIED)
None

POWER REQUIREMENTS:
120/208 Vac 3 phase, 60 Hz, 160 amp capacity

PUBLICATIONS FURNISHED:
Operation and Maintenance Manual with Parts List, NTSC P-6159
PMS Documentation, NTSC P-6160
Commercial Computer Documentation Set, NTSC P-6161
Life Cycle Software Environment Users Guide, NTSC P-6162
Instructor's Utilization Hand book - NTSC P-6163
On-The-Job Training Handbook, NTSC P-6164

PERSONNEL:
Instructor: One Chief or 1st class PO, qualified to teach CATCC.
Trainees: Class of up to 24
Maintenance: One Electronics Technician

CONTRACT IDENTIFICATION:
Manufactured by Logicon, Inc. San Diego, CA, under NTSC Contract No. N61339-86-C-0108.